

Multisectional bus in radio base station and method of using such a radio base station

Field of the invention

5 The present invention relates to improvements in radio base systems. ~~Whereas the present application is directed to buses in radio base stations, other aspects of the invention are claimed in co-pending applications:~~

- ~~1. XML controlled radio base station and method of using such a radio base station (attorneys file number P212132PCT)~~
- 10 ~~2. System with centralized resource manager (attorneys file number P212562PCT)~~
- ~~3. Manifold in a radio base station and method of using such a radio base station (attorneys file number P212564PCT)~~

MA
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Prior art

15 Radio Base Stations (RBS) within a mobile telephony system, apart from being arranged to communicate with mobile terminals, are often used as network traffic transfer points to other base stations. Commonly used network topologies for connecting such base stations to each other include chain, ring, and tree topologies. A single transmission link may operate at rates of 2, 4, or 8 Mbit/sec, which is greater
20 than what is used by a single base station. Therefore, multiple base stations often use a single transmission link. Since the physical transmission medium is usually a radio link, base station sites often house radio link equipment as well.

Each base station is typically connected to the transmission network with one or more physical transmission links. The number of links depends on the desired network
25 topology, requirements for redundancy, and the need for transmission capacity at the base station.

Figure 1 shows an example of a RBS 1 according to the prior art (see, e.g., WO01/56235). The RBS 1 as shown comprises a switch 5 that is connected to a plurality of transceivers TRX 29 via internal interface connections 27. The internal
30 interface connections 27 are connected to an internal interface 23. An external interface 21 is connected to ports 3, 7, 25 for external connections. The external interface 21 is also connected to an internal bus 19. The internal bus 19 is also connected to a plurality